

IN THE CLAIMS:

Please AMEND the claims and ADD new claims as indicated below:

1. (CURRENTLY AMENDED) A combination weighing device for weighing respective groups of objects to determine a partial combination of the groups of objects having a total weight approximating to a target combination weight, said device comprising:

a plurality of transport elements controlled in accordance with prescribed parameters to transporting transport respective groups of objects;

a transport quantity measuring element measuring weights of respective groups of objects transported by said plurality of transport elements; and

a transport quantity control element controlling the plurality of transport elements via the prescribed parameters to control said weights of respective groups of objects ~~on the basis of prescribed parameters~~, said transport quantity control element comprising:

an operation element obtaining an average and standard deviation of weights of respective groups of objects corresponding to a prescribed frequency for each transport element on the basis of weights of respective groups of objects corresponding to said prescribed frequency measured by said transport quantity measuring element; and

a parameter operation element operating determining said prescribed parameters on the basis of said average and said standard deviation of each transport element obtained by said operation element, said parameter operation element selecting one of at least two operation different computation techniques to determine operate the prescribed parameter of each transport element in response to said standard deviation obtained by said operation element.

2. (ORIGINAL) The combination weighing device according to claim 1, wherein

said transport quantity control element controls driving strength for said plurality of transport elements thereby controlling weights of respective groups of objects.

3. (ORIGINAL) The combination weighing device according to claim 1, wherein

said transport quantity control element controls driving time for said plurality of transport elements thereby controlling weights of respective groups of objects.

4. (CURRENTLY AMENDED) The combination weighing device according to claim 1, wherein

said transport quantity control element further comprises:

a transport state detection element detecting an overscale state or an empty state of each transport quantity measuring element on the basis of said weights of respective groups of objects measured by said transport quantity measuring element;

and wherein said parameter operation element selecting one of at least two different computation techniques ~~separation techniques~~ in response to the result of detection of said transport state detection element.

5. (NEW) A combination weighing device for weighing respective groups of objects to determine a partial combination of the groups of objects having a total weight approximating to a target combination weight, said device comprising:

a plurality of transport elements controlled in accordance with prescribed parameters to transport respective groups of objects;

a transport quantity measuring element measuring weights of respective groups of objects transported by said plurality of transport elements;

means for obtaining an average and standard deviation of weights of respective groups of objects corresponding to a prescribed frequency for each transport element on the basis of weights of respective groups of objects corresponding to said prescribed frequency measured by said transport quantity measuring element; and

means for selecting one of at least two different computation techniques using the obtained average and the obtained standard deviation to determine the prescribed parameter of each transport element in response to the obtained standard deviation.

6. (NEW) A combination weighing device comprising:

a plurality of radiation feeders controlled in accordance with a plurality of prescribed parameters, respectively, to transport a plurality of groups of objects, respectively;

a plurality of measuring hoppers corresponding, respectively, to the plurality of radiation feeders, each measuring hopper measuring weights of a respective group of objects transported by the corresponding radiation feeder; and

a transport quantity control element controlling the radiation feeders via the prescribed parameters to control said weights, the transport quantity control element comprising:

an operation element obtaining an average and standard deviation of weights of respective groups of objects corresponding to a prescribed frequency for each

radiation feeder on the basis of weights of groups of objects corresponding to said prescribed frequency measured by the measuring hoppers, and

a parameter operation element determining said prescribed parameters on the basis of said average and said standard deviation of each radiation feeder obtained by said operation element, said parameter operation element selecting one of at least two different computation techniques to determine the prescribed parameter of each radiation feeder in response to said standard deviation obtained by said operation element.